

# REED TOOLS

REED MANUFACTURING CO.  
Erie, Pennsylvania, U. S. A.

1892  
1931

# Highest Award for Machinists' Vises

*at*  
Panama-Pacific International Exposition  
San Francisco



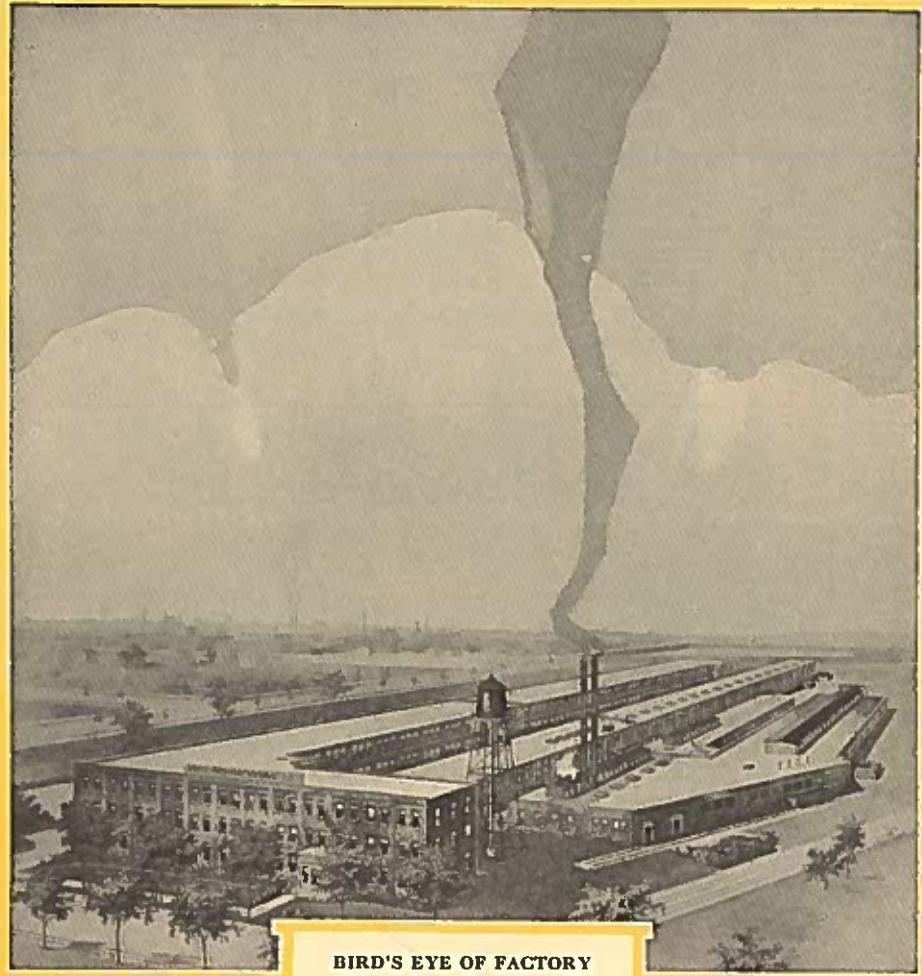
Gold Medal  
Conferred upon  
REED MANUFACTURING COMPANY  
*by the*  
International Jury of Awards  
for Vises Manufactured by this Company

# REED TOOLS

CATALOGUE

Nº 12<sup>c</sup>

REED MANUFACTURING CO.  
Erie, Pennsylvania, U. S. A.



**BIRD'S EYE OF FACTORY**  
Occupying a floor space of  
over three acres



# INTRODUCTORY

**F**OR over a quarter of a century "Reed" has been the mark of superiority for vises and pipe tools.

We have an established reputation for tools of highest quality; in fact we make nothing else.

We have the factory, the equipment, and the organization for the very best work.

Every possible precaution is taken to insure that each tool which leaves the factory is perfect. Each tool is covered by a guarantee which reads as follows:

## Guarantee

All Reed tools are guaranteed to be right in every respect. If there is anything wrong with this one, write direct to us, and we will repair or replace it free of charge.

Our name is stamped on each tool as a mark of our responsibility to the purchaser.

Reed Tools are the best money can buy, the best time and experience can produce.

Our designs are distinctly and exclusively "Reed," and embody important features which are covered by patents.

## How "Reed" Quality is Maintained

We buy the best possible materials suited to the intended use.

Work is done by men thoroughly trained for the work they do.

Not only is painstaking care exercised in all operations, but each operation is followed by careful inspection.

Exacting tests are frequently instituted to insure that each tool is just right from a practical as well as a theoretical standpoint.

The extent to which inspection and test are carried is not, we believe, approached by any other manufacturer of tools of similar kinds. Our tests cover as nearly as possible the most severe duty the tools are likely to encounter in actual service.

To painstaking care in every detail we attribute the unfailing satisfaction given by Reed tools in service, and the long existing, widespread preference for them.

# ~R I G I D I T Y~

## *Its Application to Vises*



ORK cannot be done efficiently with a vise which springs or gives under the working force, because of the effort wasted through spring and recoil.

Years of experience have convinced us that the most important single quality a vise should possess is—

### Rigidity

and to be efficient it must possess this quality to the greatest possible degree. For that reason Reed has for many years paid special attention to Rigidity.

Reed Vises are the most rigid obtainable. Our models have been carefully designed to secure maximum rigidity.

The secret of serviceable rigidity is in the distribution of weight to carry working strains. Weight alone is not sufficient, as will be seen by considering a heavy vise with light, slender jaws.

Rigidity is in a measure related to strength. Nevertheless, the distribution of weight to secure rigidity is a separate and distinct problem.

It is largely the extra rigidity of Reed Vises which makes them superior for all kinds of work.

Reed Vises effectively resist the working force required for bending, chipping, riveting, filing, etc. Thus, all labor goes into the work to be accomplished, and is not lost through spring or recoil of the vise. The desire which leads to the purchase of a vise is really a desire for Rigidity. Something is wanted which will hold rigidly an object while work is performed on that object.

The metal of which Reed Vises are made is recognized as the most stable, most rigid metal suited to making of vises.

The combination of sufficient weight, the most rigid material, and a design to secure maximum rigidity results in superiority not obtainable in other makes.

Careful fitting of parts increases measurably the rigidity of Reed vises, and in consequence adds considerably to length of service. Carefully fitted parts distribute the wear over larger areas, and thus parts wear more slowly.

Rigidity of the vise affects both the quantity and quality of work performed on an object held, and buyers of vises should give serious thought to this subject when selecting vise equipment.

# SUPERIOR FEATURES ~Found in Reed Vises~



ATERIAL used is of the finest grade of cast iron with a suitable percentage of steel, which adds considerably to the tensile strength. Years of service have proved the merit of our formula. When a more suitable metal is discovered for vises Reed will adopt it.

**Machining**—Reed Vises are carefully machined to close limit gauges at all contact points. This insures correct working fit, true bearing surfaces, and perfect interchangeability of all parts.

**Nut**—The nut is the part subject to most wear. In Reed the nut has a milled base which fits into a milled slot in the body to insure interchangeability and permanent alignment of the screw. The nut is very easily and quickly replaced.

**Vise Jaws**—Reed Vise jaws have high grade tool steel facings securely welded on. Reed users are never troubled with loose jaw facings. The Reed method effectually overcomes the faults of attaching jaw faces with screws, or pins, or by other similar methods.

**Jaw Facings**—These have deeply milled, circular cross corrugations, secured through the Reed patented process and are hardened to a degree which experience has proved is most desirable for regular standard stock purposes. These corrugations last so long the appeal of renewable jaw facings is entirely lost. The circular shape of these corrugations is such as to give exceptional grip and prevent the object held from slipping up or down as sometimes happens where straight line corrugations are used. This important feature is patented. All vises are furnished with these jaw facings unless otherwise specified. If, however, smooth jaw facings or particularly soft jaw facings are required for any unusual job, we are prepared to furnish them on order without extra charge and with but little delay.

**Screws**—Reed Vise screws have large heads to minimize wear between sliding bar and head of screw. The screw thread has large bearing surface and is of correct pitch to minimize wear, and to give quick, powerful grip.

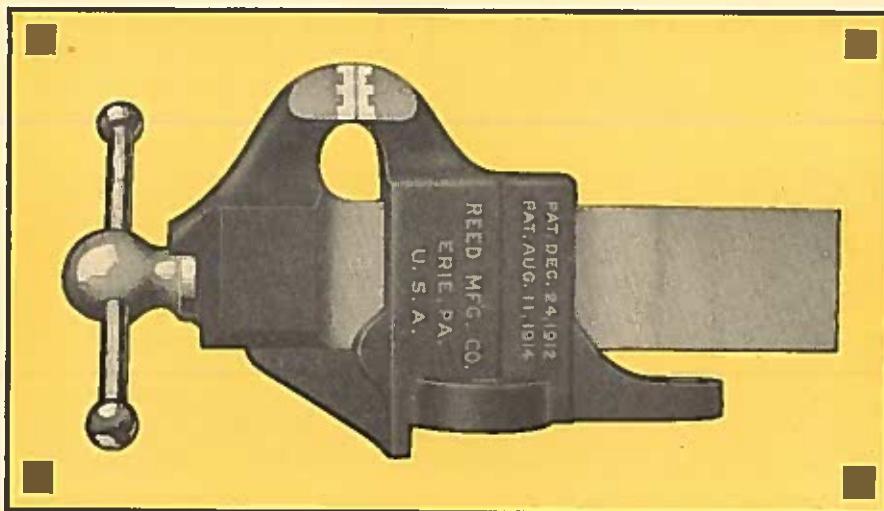
**Strength**—Reed Vises do not break. Early models were deliberately subjected to breaking tests. In later models strength was added at every point where any weakness was disclosed.

**Finish**—Reed Vises are given a high grade, commercial finish. The roughness of many makes is conspicuously absent in Reed.

**Inspection**—Every part is carefully inspected to insure the best vise possible. After assembly all vises are again inspected.

**Guarantee**—Every Reed Vise, and every part of a Reed Vise, is guaranteed to be right in every way. This guarantee is unqualified, and represents the maker's full accountability to the purchaser. Reed dealers are urged to make full use of this statement of our responsibility.

*Machinists'*  
*Vise*



Patented Dec. 12, 1912, Aug. 11, 1914, Jan. 4, 1916

### Reed Machinists' Vise

**Stationary Jaw, Stationary Base. Guaranteed Throughout**

This is the Reed basic design developed by deliberate breaking tests. From it all our other bench models have been patterned.

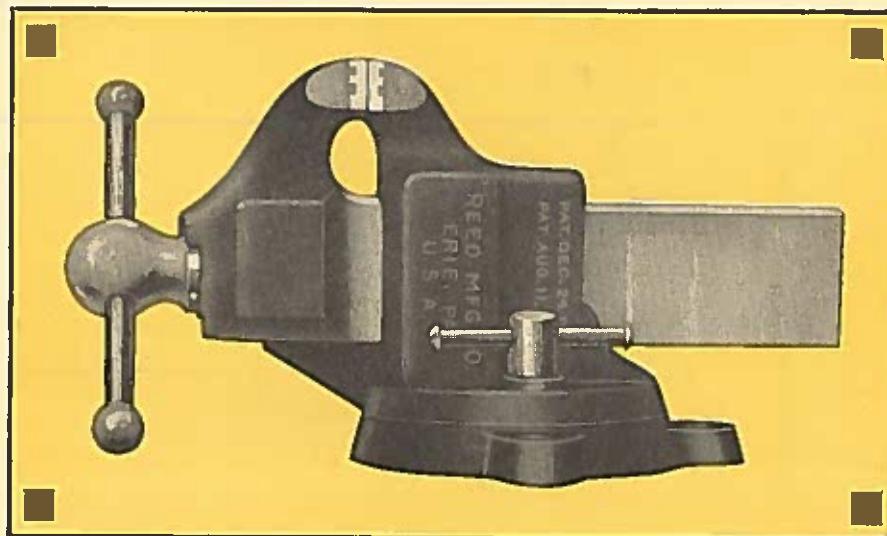
The jaws have tool steel facings securely welded on. These carry deep, cross-milled, patented circular corrugations which give superior grip. This grip even on very rough work should last the lifetime of the vise.

The rectangular hole through body is broached, and the sliding bar is carefully milled to close limits at all contact points. This results in a snug but easy working fit, and perfect interchangeability of parts.

The nut with milled base fits into a milled slot in the body, and is quickly and easily replaced if ever necessary. This is important and is a Reed feature exclusively. The screw, also, is renewable if years of duty make a new one necessary. Numbers 108 and 109, because of their weight and strength, are known as *Heavy Chipping Vises* and are used in *Railroad Shops* and *Large Machine Shops*.

Vise No.	Code* Word	List Price Each	Width of Jaw Inches	Weight Pounds	Jaws Open Inches	Depth Opening Inches
102	ABAFT	\$ 8.25	2	10½	3	2
102½	ABBOT	9.00	2½	14½	3½	2½
103	ABEAR	10.00	3	22	4	2¾
103½	ABHOR	11.25	3½	29	5	2¾
104	ABIDE	12.75	4	43	6	2¾
104½	ABLAT	15.50	4½	57½	7	3¼
105	ABOMA	20.00	5	73	8	3¾
105½	ABRAD	30.00	5½	103	9	4
106	ABTEN	39.00	6	135	10	4½
107	ABUSE	55.00	7	175	12	5½
108	ABYSS	75.00	8	236	12	5½
109	ABZUG	90.00	9	283	13	5½

\*Use code above with code on pages 58 to 60. List of parts, page 53.



Patented Nov. 3, 1908, Dec. 12, 1912, Aug. 11, 1914, Jan. 4, 1916

### Reed Machinists' Vise

Stationary Jaw, Swivel Base. Guaranteed Throughout

Our swivel base vises have all the strength and merit of design found in our stationary base type, plus the convenience and utility of a vise which may be turned to any horizontal position and firmly locked there.

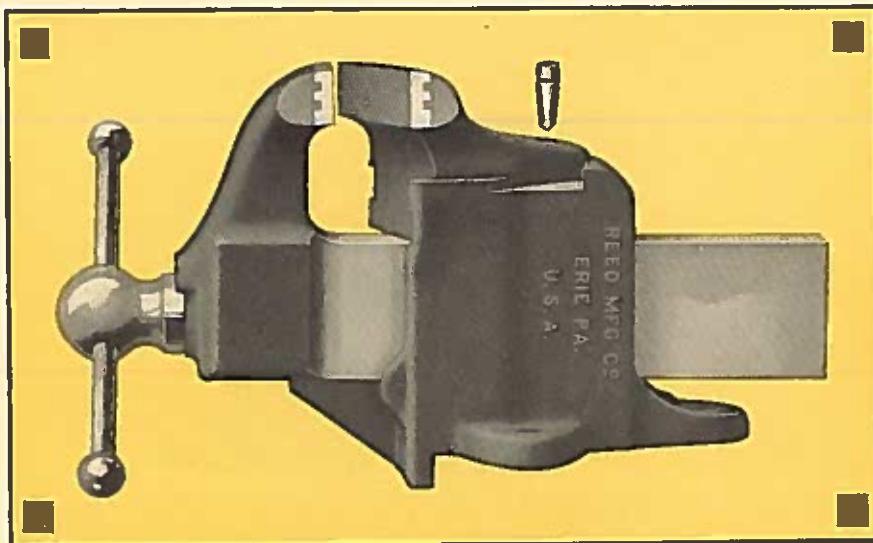
The clamping device is a wedge-shaped bolthead which fits in an inverted V-shaped channel, and is locked by a clamping nut. This gives a positive, non-slip grip in any desired position. It also clamps the body firmly to the base at the rim as well as in the center, thereby binding the vise firmly to its base and increasing its rigidity. Sizes 205 and larger have two clamping bolts instead of one.

The swiveling action is especially valuable where work has to be done on more than one side of an object, and this type of vise is coming more and more into general use.

Vise No.	Code* Word	List Price Each	Width of Jaw Inches	Weight Pounds	Jaws Open Inches	Depth Opening Inches
202	ACCUM	\$10.50	2	12 $\frac{1}{2}$	3	2
202 $\frac{1}{2}$	ACERB	12.00	2 $\frac{1}{2}$	20	3 $\frac{1}{2}$	2 $\frac{5}{8}$
203	ACIDY	13.00	3	27	4	2 $\frac{7}{8}$
203 $\frac{1}{2}$	ACHEG	15.00	3 $\frac{1}{2}$	38	5	2 $\frac{3}{4}$
204	ACLAT	17.00	4	51	6	2 $\frac{7}{8}$
204 $\frac{1}{2}$	ACMEL	20.00	4 $\frac{1}{2}$	66	7	3 $\frac{1}{4}$
205	ACQUI	30.00	5	89	8	3 $\frac{3}{4}$
205 $\frac{1}{2}$	ACORN	38.00	5 $\frac{1}{2}$	120	9	4
206	ACROG	52.00	6	153	10	4 $\frac{1}{8}$
207	ACTOR	70.00	7	204	12	5 $\frac{1}{8}$
208	ACUTE	98.00	8	278	12	5 $\frac{1}{16}$
209	ACYLO	115.00	9	327	13	5 $\frac{1}{2}$

\*Use code above with code on pages 58 to 60. List of parts, page 53.

# Machinists' Vise



Patented Dec. 12, 1912, Aug. 11, 1914, Jan. 4, 1916

## Reed Machinists' Vise

**Swivel Jaw, Stationary Base. Guaranteed Throughout**

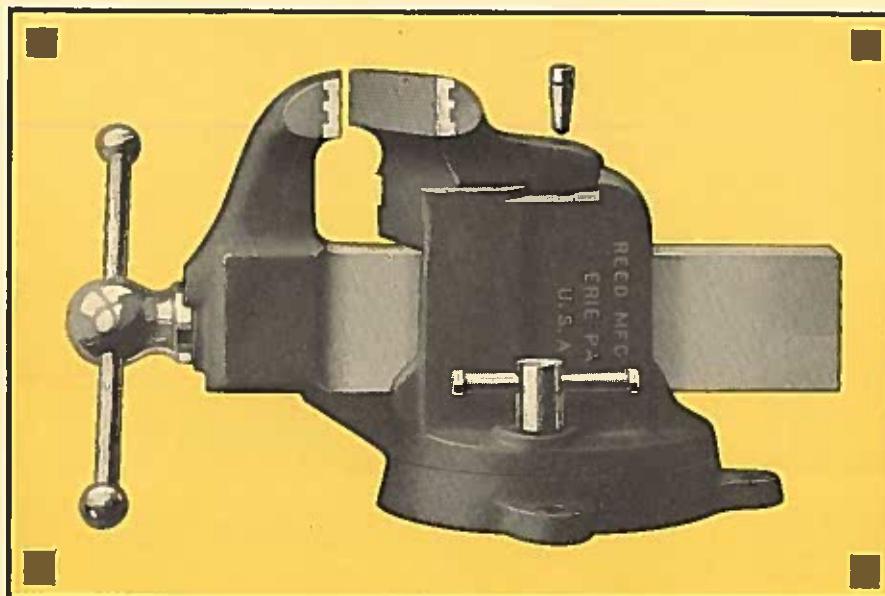
The Reed swivel jaw vise is superior to any other vise of this type. The swivel feature is secured without loss of strength, and without loss of efficiency. The axis of rotation of the swiveling jaw is in line with the face of the jaw. In consequence, the jaw will easily adjust itself to and hold firmly any tapered or irregular shaped object. The Reed design eliminates the offset or staggered position of the jaws, when swiveled, common to other swivel jaw designs.

The swivel action is secured by removing a tapered lock-pin in the back jaw. This action is smooth, easy, and automatic. With the lock-pin in place the vise is as firm and rigid as the stationary jaw type.

In other details this model is practically the same as the stationary jaw vise, and is equally strong and rigid.

Vise No.	Code* Word	List Price Each	Width of Jaw Inches	Weight Pounds	Jaws Open Inches	Depth Opening Inches
302	ADAGE	\$11.50	2	11	2½	2 $\frac{1}{8}$
302½	ADDER	13.50	2½	17	3	2 $\frac{1}{8}$
303	ADEPT	15.00	3	25	3½	3 $\frac{1}{8}$
303½	ADGIG	16.00	3½	35	4	3 $\frac{1}{8}$
304	ADIEU	19.00	4	50	4 $\frac{3}{4}$	3 $\frac{3}{4}$
304½	ADKUL	22.00	4½	66	5½	4 $\frac{1}{4}$
305	ADMIT	28.00	5	82	6½	4 $\frac{3}{4}$
305½	ADNOS	35.00	5½	116	7¾	5 $\frac{1}{8}$
306	ADORN	50.00	6	141	9	5 $\frac{1}{8}$
307	ADRIPI	65.00	7	196	11½	6 $\frac{1}{8}$
308	ADULZ	90.00	8	273	12	7

\*Use code above with code on pages 58 to 60. List of parts, page 53.



Patented Nov. 3, 1908, Dec. 12, 1912, Aug. 11, 1914, Jan. 4, 1916

### Reed Machinists' Vise

Swivel Jaw, Swivel Base. Guaranteed Throughout

In this model we have combined the convenience and utility of both the swivel jaw and swivel base. This is a particularly desirable type of vise for use in tool rooms. The swivel jaw action is easy, self-adjusting, and will not bind. (See page 8.)

Our design eliminates the liability to breakage which has long deterred a more general use of this type.

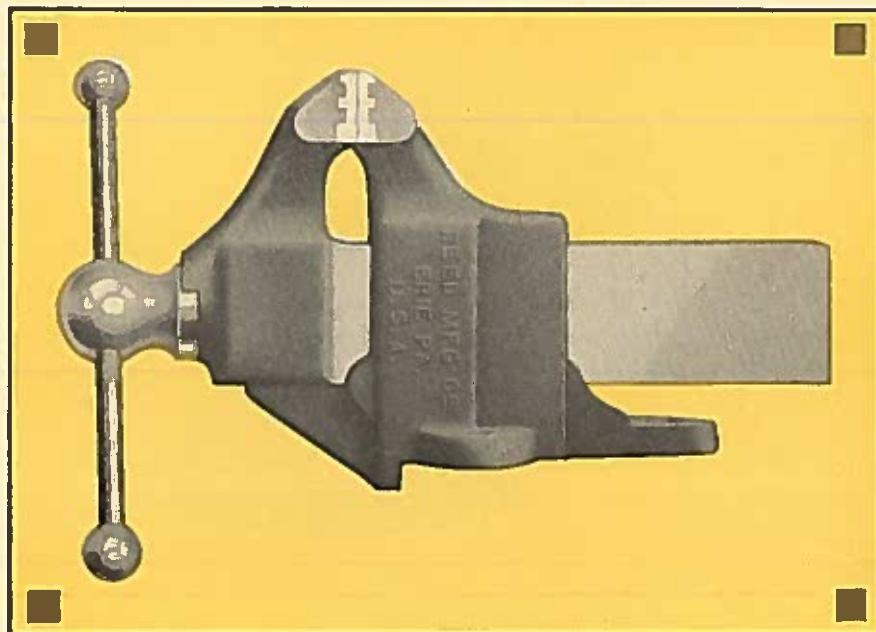
Except when grossly abused, this model will stand up as well as the stationary jaw, stationary base model.

In other details it is identical with our standard design—welded on tool steel jaws, body broached, and sliding bar milled to close limits at every contact point.

Sizes 405 and larger have two swivel base clamps instead of one.

Vise No.	Code* Word	List Price Each	Width of Jaw Inches	Weight Pounds	Jaws Open Inches	Depth Opening Inches
402	ALACK	\$13.50	2	15	2 1/2	2 5/16
402 1/2	ALBUM	16.00	2 1/2	22	3	2 1/16
403	ALERK	17.50	3	31	3 1/2	3 1/16
403 1/2	ALGUI	20.00	3 1/2	43	4	3 1/16
404	ALIKE	24.00	4	58	4 3/4	3 3/4
404 1/2	ALLAY	28.00	4 1/2	75	5 1/2	4 1/4
405	ALMUG	35.00	5	98	6 1/2	4 3/4
405 1/2	ALOND	44.00	5 1/2	139	7 3/4	5 1/16
406	ALPHA	60.00	6	164	9	5 1/16
407	ALWAY	75.00	7	223	11 1/2	6 5/16
408	ALZAR	105.00	8	300	12	7

\*Use code above with code on pages 58 to 60. List of parts, page 53.



Patented Dec. 12, 1912, Aug. 11, 1914, Jan. 4, 1916

### Reed Filers' Vise

#### Stationary Jaw, Stationary Base. Guaranteed Throughout

Here is a real Filers' Vise. It has the rigidity needed in filing. Rigidity is essential in a filers' vise.

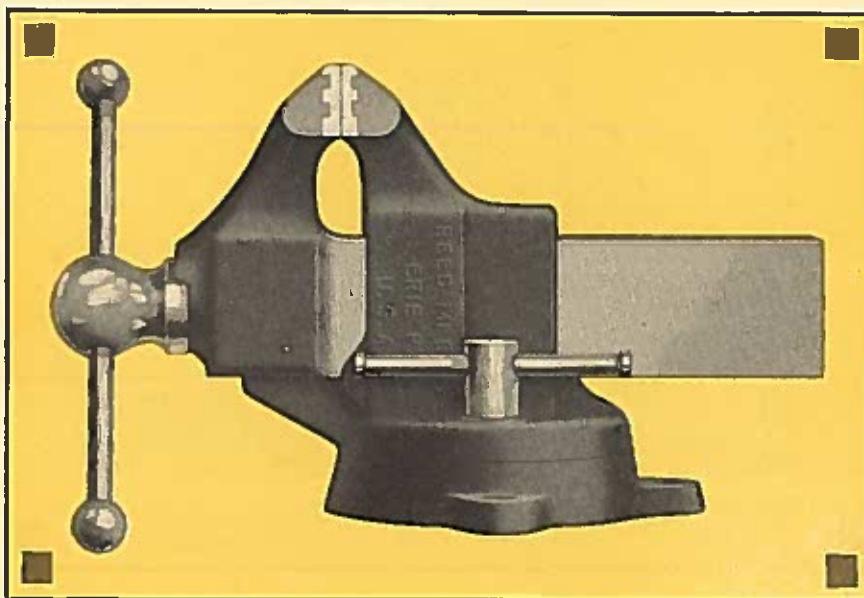
The throat is slightly deeper to permit the work to be lowered so filing can be done close to the jaws, thus eliminating vibration.

The jaws are higher and leaner than the jaws in our regular machinists' model. These lean jaws make it possible for the operator to place his hands in the necessary positions for filing at acute angles, using small files and performing similar operations which require that the hands be used close to the work. The freedom of motion and convenience thus obtained increase the efficiency of the operator considerably, as they enable him to do better work and do it faster.

In other details, jaws, body, sliding bar, nut, etc., the design is the same as used in our Machinists' Vises.

Vise No.	Code* Word	List Price Each	Width of Jaw Inches	Weight Pounds	Jaws Open Inches	Depth Opening Inches
114	APARK	\$14.50	4	45	5½	3¾
114½	APELT	16.50	4½	56	6¼	4¼
115	APISH	20.50	5	74	7½	4¾

\*Use code above with code on pages 58 to 60. List of parts, page 53.



Patented Nov. 3, 1908, Dec. 12, 1912, Aug. 11, 1914, Jan. 4, 1916

### Reed Filers' Vise

**Stationary Jaw, Swivel Base. Guaranteed Throughout**

A swivel base is a particularly valuable feature of a filers' vise, as it permits turning the work to the most advantageous filing position.

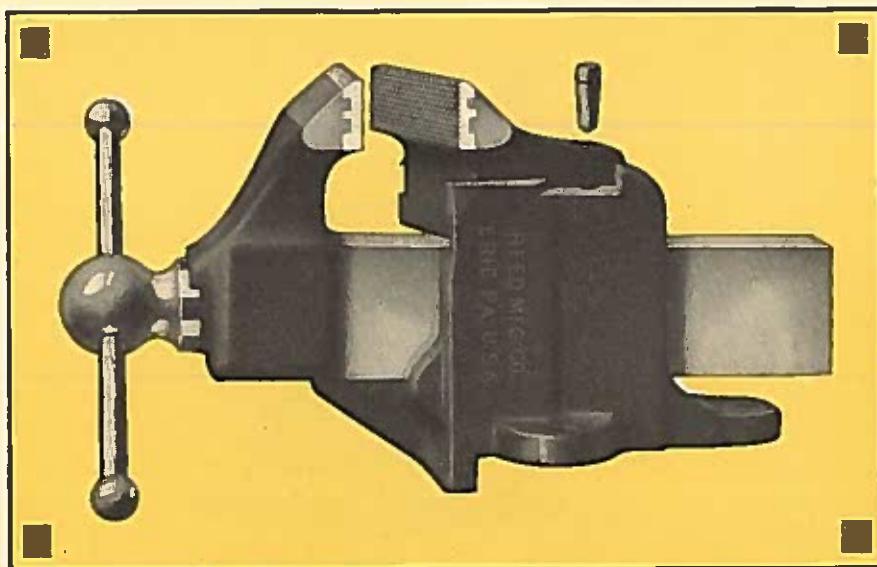
The swivel device in this model is the same as that used in our Machinists' Vises.

Swivel action is secured by loosening the clamping nut on the side. A non-slip grip is secured by a wedge-shaped bolthead in an inverted V-shaped channel. Years of use will not affect the efficiency of this superior clamping method, which does not allow the body to become shaky on the base.

Jaws are of tool steel, welded on, and have deep, cross-milled, patented circular corrugations which give firm grip for the lifetime of the vise.

Vise No.	Code* Word	List Price Each	Width of Jaw Inches	Weight Pounds	Jaws Open Inches	Depth Opening Inches
214	APPLE	\$18.00	4	57	5½	3¾
214½	APRON	20.00	4½	66	6¾	4¾
215	APSL	28.00	5	93	7½	4¾

\*Use code above with code on pages 58 to 60. List of parts, page 53.



Patented Dec. 12, 1912, Aug. 11, 1914, Jan. 4, 1916

### Reed Filers' Vise

**Swivel Jaw, Stationary Base. Guaranteed Throughout**

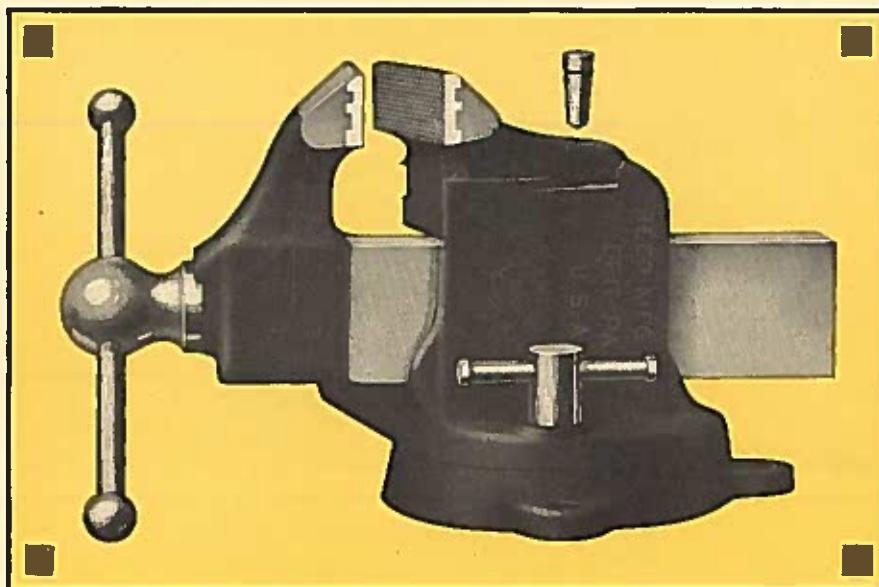
The Reed swivel jaw Filers' Vises have the strength and merit of our stationary type, plus the convenience and utility of a jaw which will swivel and grip firmly any tapered or irregular shaped piece as efficiently as a straight piece.

Swivel action is obtained by removing the taper lock-pin in the back jaw. Action is smooth, easy and self-adjusting. The axis of rotation is in line with the face of the jaw. In consequence, when the jaw is swiveled there is not the staggered or offset effect common to other makes. There is no binding. With the taper lock-pin in place the vise is as firm and rigid as the stationary jaw type.

In other details—jaw laces, broaching of the body, and milling of the sliding bar, finish and quality—it is the same as our stationary jaw type and equally strong.

Vise No.	Code* Word	List Price Each	Width of Jaw Inches	Weight Pounds	Jaws Open Inches	Depth Opening Inches
314	ARBOR	\$20.00	4	48	4 $\frac{3}{4}$	3 $\frac{3}{4}$
314 $\frac{1}{2}$	ARENA	24.00	4 $\frac{1}{2}$	63	5 $\frac{1}{2}$	4 $\frac{1}{4}$
315	ARGOT	30.00	5	77	6 $\frac{3}{4}$	4 $\frac{3}{4}$

\*Use code above with code on pages 58 to 60. List of parts, page 53.



Patented Nov. 3, 1908, Dec. 12, 1912, Aug. 11, 1914, Jan. 4, 1916

### Reed Filers' Vise

**Swivel Jaw, Swivel Base. Guaranteed Throughout**

The combination of swivel jaw and swivel base with extra weight and deep throat makes this filers' model ideal for light chipping. It is an ideal vise to include in the tool room equipment.

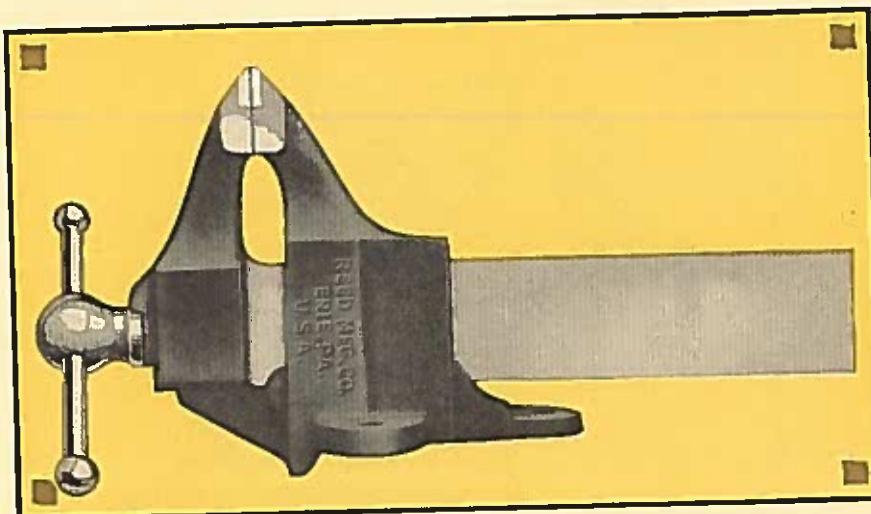
The swivel action of both back jaw and the base is the same as in our Machinists' Vises.

The tool steel jaw facings, the jaw corrugations, the broached surfaces of the rectangular hole through the body, and the milled sliding bar, all follow the standard Reed practice which makes Reed the preferred vise for heavy duty, as well as the most delicate tool room work.

Vise No.	Code* Word	List Price Each	Width of Jaw Inches	Weight Pounds	Jaws Open Inches	Depth Opening Inches
414	AROSE	\$24.00	4	57	4 $\frac{3}{4}$	3 $\frac{3}{4}$
414 $\frac{1}{2}$	ARPEN	28.00	4 $\frac{1}{2}$	72	5 $\frac{1}{2}$	4 $\frac{1}{4}$
415	ARRAY	36.00	5	98	6 $\frac{3}{4}$	4 $\frac{3}{4}$

\*Use code above with code on pages 58 to 60. List of parts, page 53.

**Coach Makers'**  
**Vise**



Patented Dec. 12, 1912, Aug. 11, 1914, Jan. 4, 1916

### Reed Coachmakers' Vise

**Stationary Jaw, Stationary Base. Guaranteed Throughout**

These vises are specially designed for coachworkers' needs. The jaws are extra high and lean, and have faces of extra depth to give broad gripping surface.

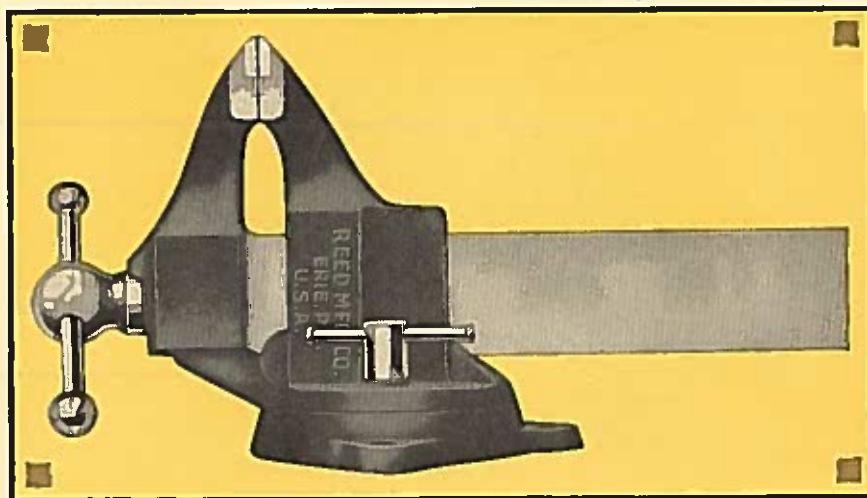
Jaw faces are of tool steel. These are milled parallel, and then ground to perfect smoothness. *They are drawn softer* than the jaw facings in our Machinists' type.

The throat is extra deep to allow work to be dropped low into the jaws.

In strength, rigidity, and quality throughout, these vises are counterparts of our Machinists' models. They were developed by deliberate breaking tests to insure requisite strength.

Vise No.	Code* Word	List Price Each	Width of Jaw Inches	Weight Pounds	Jaws Open Inches	Depth Opening Inches
124	AMBER	\$15.00	4	46	7	5
124½	AMOVE	17.50	4½	63	11	5½

\*Use code above with code on pages 58 to 60. List of parts, page 53.



Patented Nov. 3, 1908, Dec. 12, 1912, Aug. 11, 1914, Jan. 4, 1916

### Reed Coachmakers' Vise

**Stationary Jaw, Swivel Base. Guaranteed Throughout**

This model is identical with the stationary base Coachmakers' Vise, except that our standard swivel base has been added.

The swivel base is locked with a wedge-shaped bolthead in an inverted V-shaped channel, and is clamped with a screw and handle on the side of the body. Operation is quick and easy, permitting instant turning of the work to desired position.

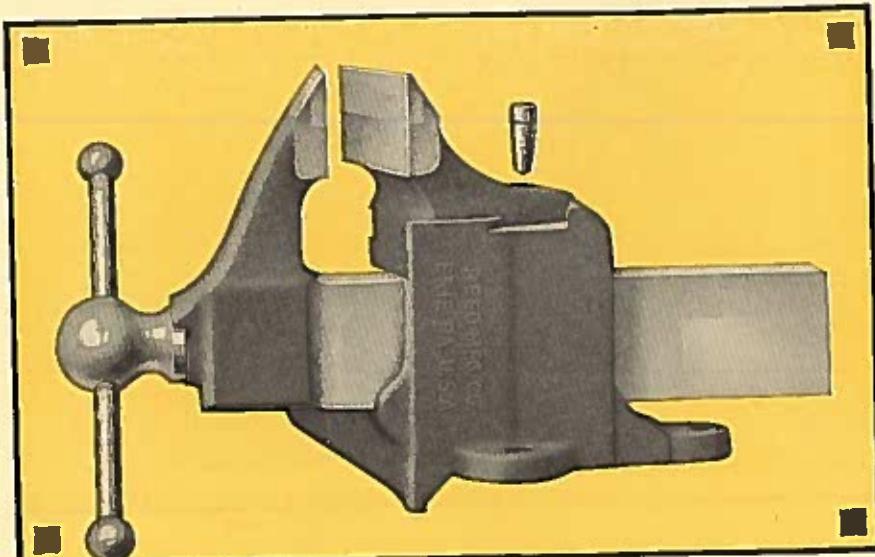
The tool steel *jaw facings* are drawn softer than the jaw facings in our Machinists' type, milled parallel, and ground to perfect smoothness.

The screw and nut, as in all Reed bench vises, is easily and quickly renewed if ever necessary. All parts are perfectly interchangeable.

Vise No.	Code* Word	List Price Each	Width of Jaw Inches	Weight Pounds	Jaws Open Inches	Depth Opening Inches
224	AMPLE	\$20.00	4	54	7	5
224½	AMUSK	22.50	4½	78	11	5½

\*Use code above with code on pages 58 to 60. List of parts, page 53.

**Coach Makers'**  
**Vise**



Patented Dec. 12, 1912, Aug. 11, 1914, Jan. 4, 1918

### Reed Coachmakers' Vise

**Swivel Jaw, Stationary Base. Guaranteed Throughout**

The Reed swivel jaw vise is superior to any other vise of this type. The swivel feature is secured without loss of strength, and without loss of efficiency.

The axis of rotation of the swiveling jaw is in line with the face of the jaw. In consequence, the jaw will easily adjust itself to, and hold firmly, any tapered or irregular shaped object. The Reed design eliminates the offset or staggered position of the jaws when swiveled, common to other swivel jaw designs.

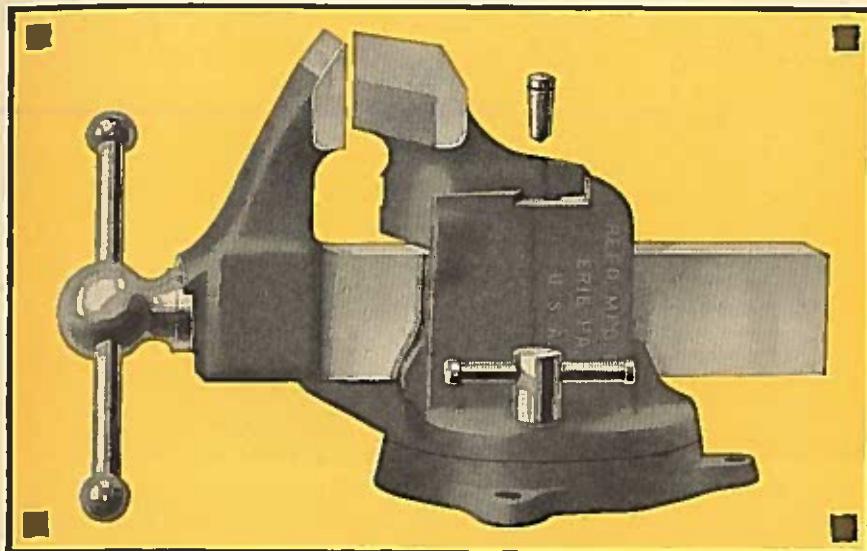
The swivel action is obtained by removing a tapered lock-pin in the back jaw. This action is smooth, easy, and without binding. With the pin in place the vise is as firm and rigid as the stationary jaw type.

Jaw faces are of tool steel, *drawn softer* than the jaw facings in our Machinists' type, milled parallel, and ground to perfect smoothness.

Jaws are high and lean, and because of extra depth have large bearing surfaces.

Vise No.	Code* Word	List Price Each	Width of Jaw Inches	Weight Pounds	Jaws Open Inches	Depth Opening Inches
324	ANCON	\$21.00	4	51	6 1/4	5
324 1/2	ANENZ	25.00	4 1/2	71	10	5 1/2

\*Use code above with code on pages 58 to 60. List of parts, page 53.



Patented Nov. 3, 1908, Dec. 12, 1912, Aug. 11, 1914, Jan. 4, 1916

### Reed Coachmakers' Vise

#### Swivel Jaw, Swivel Base. Guaranteed Throughout

This model is the ideal coachworkers' vise, meeting every requirement.

It has the strength, rigidity, and quality of our stationary type with the working advantages of both swivel base and swivel jaw.

The action of both swivel devices is positive, without binding, and the grip sure.

Jaw faces are of tool steel *drawn softer* than the jaw facings in our Machinists' type, milled parallel, and ground to perfect smoothness.

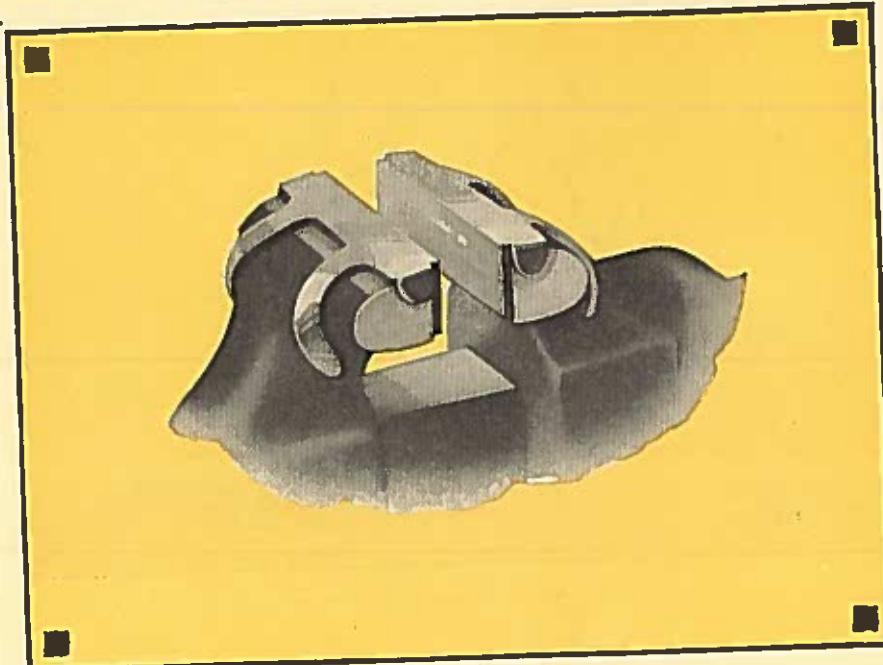
The throat is deep to permit work to be done close to jaws.

Like all Reed Tools, these models are guaranteed to be right in every detail.

Vise No.	Code* Word	List Price Each	Width of Jaw Inches	Weight Pounds	Jaws Open Inches	Depth Opening Inches
424	ANNEX	\$25.00	4	59	6 1/4	5
424 1/2	ANVIL	30.00	4 1/2	78	10	5 1/2

\*Use code above with code on pages 58 to 60. List of parts, page 53.

## Caps for Vises



### Caps for Vise Jaws

For Machinists' and Filers' Vises. Guaranteed Throughout

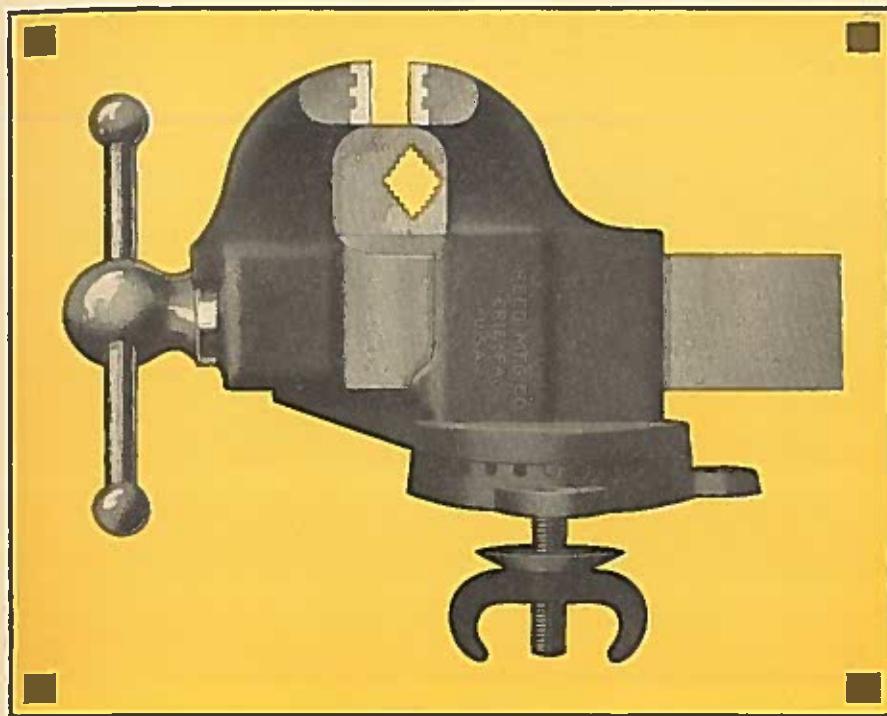
These caps are used to prevent marring of fine work by the hardened corrugations on the jaw facings.

They are made of lead, brass and copper. Selection can be made to suit the character of work to be performed; the lead caps being the softest and the brass caps the hardest. The use of lead caps is indicated on the most delicate work. Brass caps, however, wear longest.

The "fingers" hold the caps firmly in place. The caps will not fall or jar off, nor shift position during work, yet may be easily and quickly removed when use of corrugated jaw facings is to be resumed.

Brass caps always furnished in absence of specific instructions. Orders must give width of jaw and number of vise on which caps are to be used.

<u>Copper Caps</u>		<u>Brass Caps</u>			<u>Lead Caps</u>		
Width Jaw Inches	List Price Per Pair						
2	\$1.20	2	\$1.20	2	\$1.10		
2½	1.50	2½	1.30	2½	1.20		
3	1.80	3	1.50	3	1.30		
3½	2.10	3½	1.75	3½	1.50		
4	2.40	4	2.00	4	1.75		
4½	2.70	4½	2.30	4½	2.00		
5	3.00	5	2.60	5	2.35		
5½	3.50	5½	3.00	5½	2.75		
6	4.25	6	3.50	6	3.40		
7	5.00	7	4.50	7	4.10		
8	6.00	8	5.50	8	4.90		
9	7.25	9	6.50	9	5.80		



Patented Dec. 12, 1912, Aug. 11, 1914, Jan. 4, 1916

### Reed Swivel Base Combination Vise Guaranteed Throughout

By adapting our standard Machinists' design and adding a set of pipe jaws we have an ideal combination vise for holding pipe or rods, and also for the usual vise requirements.

The front pipe jaw is reversible, and when worn may be reversed, thus doubling the usual service.

The pipe jaws are milled from tool steel bars, hardened, and tempered in oil to give toughness, and each one is carefully tested.

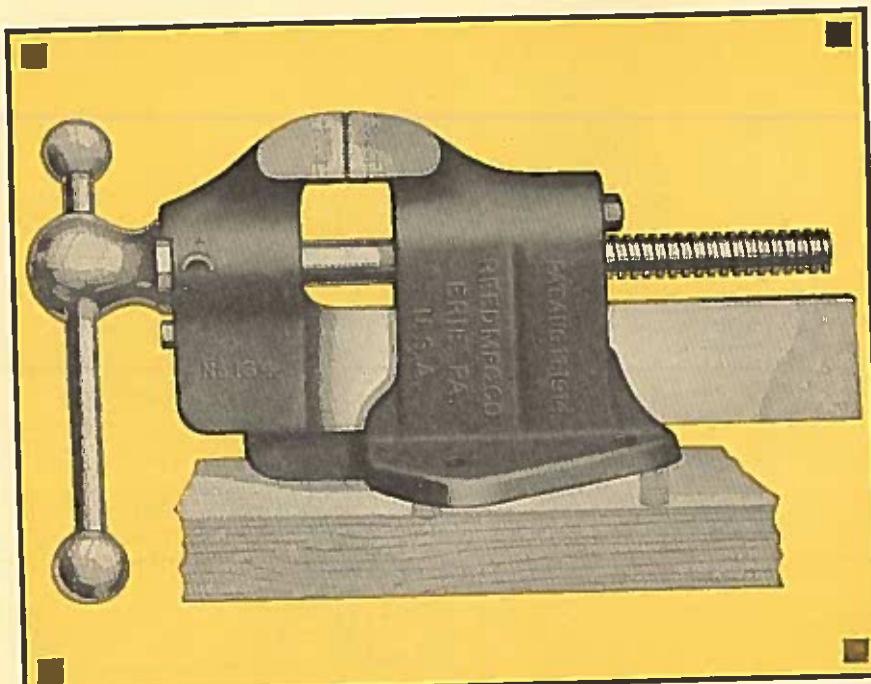
The swivel base locking device is especially effective. Lugs on both the body and base plate interlock to prevent any turning movement when the hand nut beneath the bench is firmly tightened.

The design was developed by deliberate breaking tests. There is ample strength for any duty within the capacity of each size. In quality these are up to the high Reed standard in every detail.

Vise No.	Code* Word	List Price Each	Holds Pipe Inches	Width Jaw	Weight Pounds	Jaws Open Inches	List Price Jaws per Set (3)	Weight Jaws per Set (3) Pounds
31	ASCUS	\$16.00	1/8 to 2 1/2	3 1/4	46	4	\$2.40	1 3/4
32	ASHEN	22.00	1/8 to 3 1/2	4 1/4	72	5	3.40	2 1/2
33	ASSAY	32.00	1/8 to 4 1/2	5	119	6 1/4	5.60	4 1/2
34	ASTEG	45.00	1/8 to 6	6	178	8 1/4	8.00	6

\*Use code above with code on pages 58 to 60. List of parts, page 53.

**Steamfitters'  
Vise**



Patented Aug. 11, 1914, Jan. 4, 1916

**Reed Stationary Base Steamfitters' Vise  
Guaranteed Throughout**

This vise is used by steamfitters either "on the job" or in the shop and has a combination of devices and qualities which make it a peculiarly desirable and efficient vise for service of this nature.

Because it is chiefly used for holding pipe, the design is not restricted by certain requirements of Machinists' vise service. For instance, in this type it is possible to bring the main screw up near the jaws, increasing the firmness of the grip of the vise. This location of the screw, together with the box construction of the body which this design makes possible, gives us a vise which is stronger and more rigid than could possibly be

**STEAMFITTERS' TYPE—With Renewable Jaw Facings—For Pipe Work**

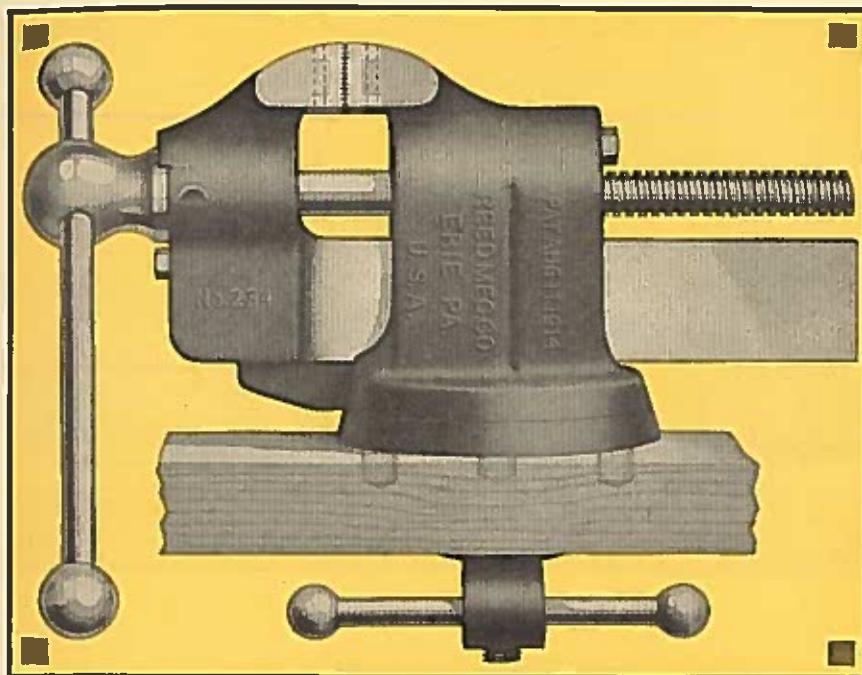
Vise No.	Code* Word	List Price	Holds Pipe Inches	Width Jaw Facings	Weight Lbs.	Jaws Open Inches	Jaw Facings Per Pair
134	AWALK	\$15.00	1/8 to 4	4	52	5	\$3.00
134 1/2	AWANT	23.00	1/8 to 6	4 1/2	75	6 3/4	4.00
135	AWARK	29.00	1/8 to 6	5	98	7 3/8	5.00
136	AWED	44.50	1/8 to 8	6	155	9 3/8	7.00

**MACHINISTS' TYPE—With Welded-On Jaw Facings—For General Work**

Vise No.	Code* Word	List Price	Width Jaw Inches	Weight Lbs.	Jaws Open Inches	Depth Opening Inches
144	AWOFT	\$15.00	4	52	5	2 3/4
144 1/2	AWOJA	23.00	4 1/2	75	6 3/4	3 1/8
145	AWOLF	29.00	5	98	7 3/8	3 7/8
146	AWONK	44.50	6	155	9 3/8	4 5/8

\*Use code above with code on pages 58 to 60. List of parts, page 53.

**Steamfitters' Vise**



Patented Aug. 11, 1914, Jan. 4, 1916

**Reed Swivel Base Steamfitters' Vise**

Guaranteed Throughout

obtained with anything like an equal weight of metal in any other design and makes this positively the strongest and most rigid vise ever made.

The strength of this vise makes it available for use in bending pipe "on the job" in emergencies, and the wide jaws with coarse, deeply corrugated facings hold pipe firmly without "teetering" or turning.

There are also devices for taking up the play caused by friction between working parts and a replaceable main nut which are exclusively Reed features and increase greatly the efficient life of the vise.

It is made in both stationary and swivel base types.

**STEAMFITTERS' TYPE—With Renewable Jaw Facings—For Pipe Work**

Vise No.	Code* Word	List Price	Holds Pipe	Width Jaw Inches	Weight Lbs.	Jaws Open Inches	Jaw Facings Per Pair
234	AWEST	\$18.00	1/8 to 4	4	58	5	\$3.00
234 1/2	AWILK	26.50	1/8 to 6	4 1/2	83	6 3/4	4.00
235	AWIND	33.00	1/8 to 6	5	108	7 3/8	5.00
236	AWIRT	48.50	1/8 to 8	6	170	9 3/8	7.00

**MACHINISTS' TYPE—With Welded-On Jaw Facings—For General Work**

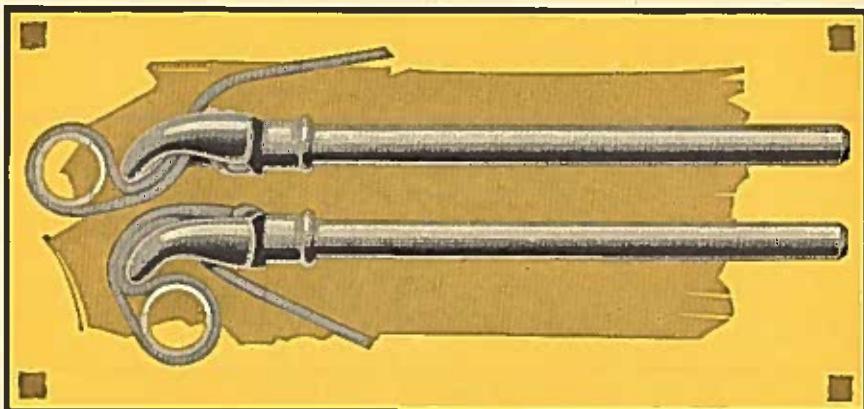
Vise No.	Code* Word	List Price	Width Jaw Inches	Weight Lbs.	Jaws Open Inches	Depth Opening Inches
244	AWULS	\$18.00	4	58	5	2 3/4
244 1/2	AWURN	26.50	4 1/2	83	6 3/4	3 1/2
245	AWUSK	33.00	5	108	7 3/8	3 7/8
246	AWUTS	48.50	6	170	9 3/8	4 5/8

\*Use code above with code on pages 58 to 60. List of parts, page 53.

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## Strap Wrench



### Reed Strap Wrench For Polished Pipe and Tubing

This type of wrench furnishes a very practical, efficient method of screwing up polished pipe, tubing, and shafting without scratching or crushing. May be used with "ratchet" movement in close quarters. There are no screws or clamps to loosen. Straps are made of fine quality linen webbing. Use rosin or chalk to prevent slipping. Straps may be reversed.

Wrench No.	Code* Word	Wrench List Each	Takes Pipe Inches	Weight Pounds	Length Inches	Straps List Each	Length Strap Inches	Width Strap Inches	Weight Strap Ounces
12	URALD	\$1.50	1/8 to 2	1 1/2	12	\$0.40	18	1 1/8	3
18	URBER	3.00	1 to 5	2 3/4	18	1.00	30	1 3/4	6

### Reed Strap Vise No. 51 For Polished Pipe and Tubing

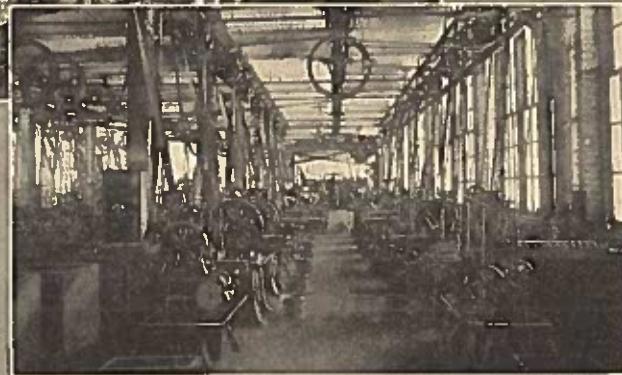
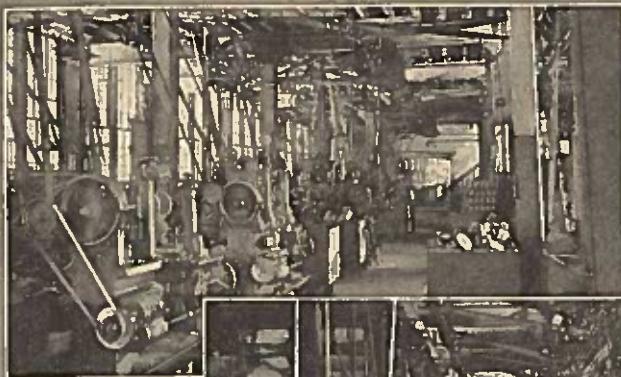
Guaranteed Throughout

This vise does not require a separate bushing for each size. Change for different sizes made instantly with tightening screw. Straps are of fine grade linen webbing and are subject to very little wear in use. Use rosin or chalk to prevent slipping. Takes all pipe 1/8" to 2".

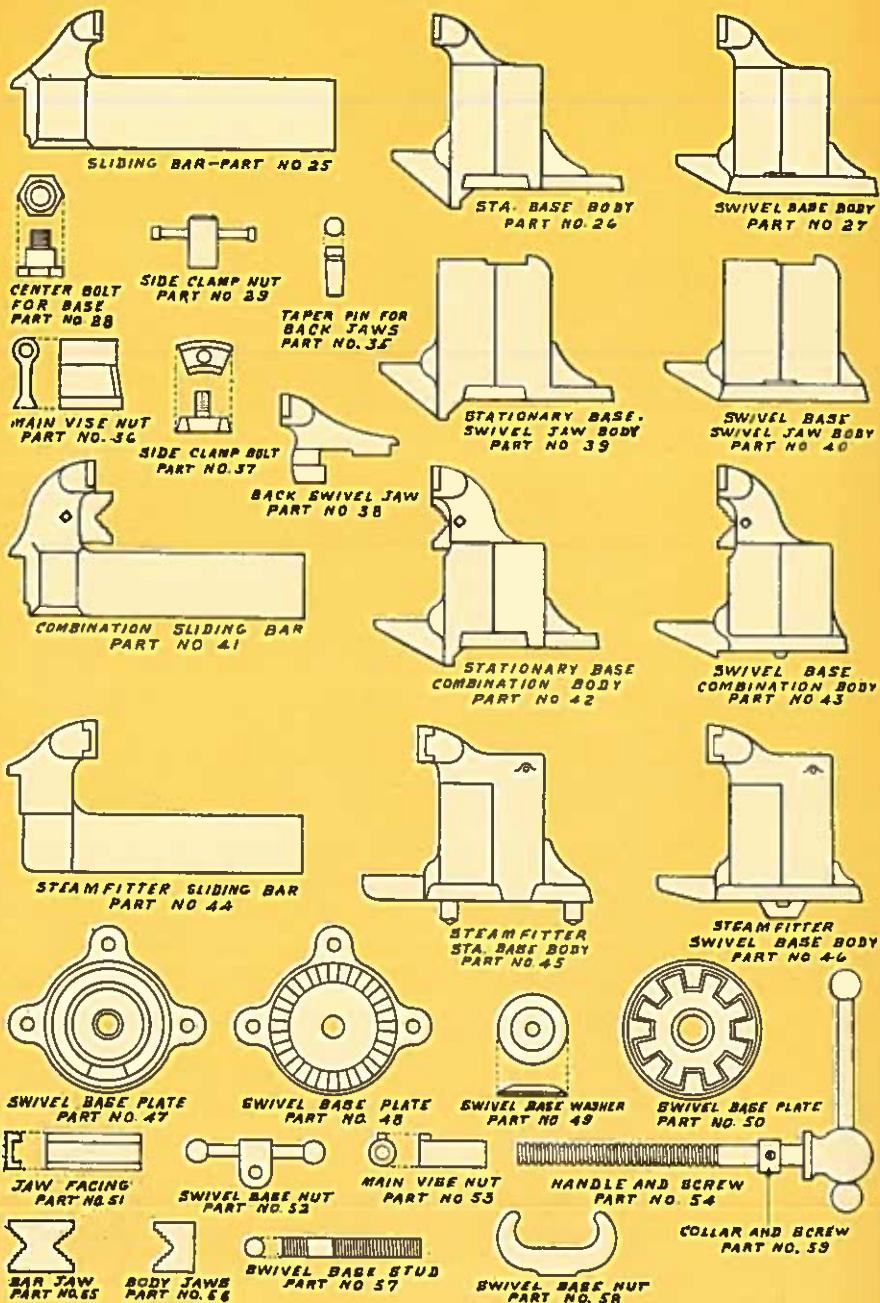
Code* Word	Vise List Each	Holds Pipe Inches	Weight Pounds
Azoic	\$4.00	1/8 to 2	9 1/2
Strap Each	Length Strap Inches	Width Strap Inches	Weight Strap Ounces
\$0.75	17	2 1/8	4



\*Use code above with code on pages 58 to 60.



# Vise Parts



**List of Parts For Machinists', Filers' and Coachmakers' Vises**

Width of Vise Jaw	No. 25	No. 26	No. 27	No. 28	No. 29	No. 35	No. 36	No. 37	No. 38	No. 39	No. 40	No. 47	No. 54	No. 59
2	\$4.10	\$4.10	\$4.10	\$0.30	\$0.30	\$0.45	\$0.45	\$0.30	\$3.50	\$4.10	\$4.10	\$1.60	\$0.20	\$0.20
2 $\frac{1}{2}$	4.50	4.50	4.50	.40	.30	.50	.40	.30	4.00	.50	.50	2.20	1.75	.30
3	5.00	5.00	5.00	.50	.40	.65	.50	.40	4.50	.50	.50	2.50	2.00	.30
3 $\frac{1}{2}$	5.60	5.60	5.60	.60	.50	.80	.60	.50	5.00	.60	.60	3.00	2.40	.30
4	6.50	6.50	6.50	.70	.60	.90	.70	.60	5.50	.70	.70	4.00	3.00	.40
4 $\frac{1}{2}$	7.80	7.80	7.80	.80	.70	.90	.70	.60	6.00	.80	.80	5.00	4.00	.40
5	10.00	10.00	10.00	.90	.80	.90	.70	.60	7.00	.90	.90	6.00	5.00	.50
5 $\frac{1}{2}$	15.00	15.00	15.00	1.00	.90	.90	.70	.60	8.00	1.00	1.00	7.00	6.50	.60
6	19.50	19.50	19.50	1.20	1.00	1.00	.80	.60	2.25	1.20	9.50	21.00	8.00	.70
7	27.50	27.50	27.50	1.50	1.20	1.20	.90	.70	3.00	1.50	12.00	27.50	10.00	.80
8	37.50	37.50	37.50	1.75	1.50	1.50	1.00	.75	3.75	1.75	15.00	37.50	12.00	.90
9	45.00	45.00	45.00	2.00	1.75	1.75	1.00	.75	4.50	2.00	2.00	40.00	14.00	1.00

**List of Parts for Combination Vises**

Vise No.	Width of Vise Jaw	No. 36	No. 41	No. 42	No. 43	No. 48	No. 49	No. 40	No. 54	No. 55	No. 56	Each	No. 56	No. 57	No. 58	No. 59
31	3 $\frac{1}{2}$	\$1.10	\$6.00	\$6.00	\$1.00	\$1.00	\$0.20	\$3.50	\$0.80	\$0.80	\$0.80	\$0.30	\$0.25	\$0.20	\$0.25	\$0.25
32	4 $\frac{1}{2}$	1.50	8.00	8.00	1.80	1.80	.30	4.20	1.20	1.20	1.10	.50	.40	.40	.40	.40
33	5	1.75	12.00	12.00	2.50	2.50	.50	5.50	2.00	1.80	.80	.60	.60	.60	.60	.60
34	6	2.80	16.00	16.00	3.00	3.00	.60	8.80	3.00	2.50	1.00	1.00	1.00	1.00	1.00	1.00

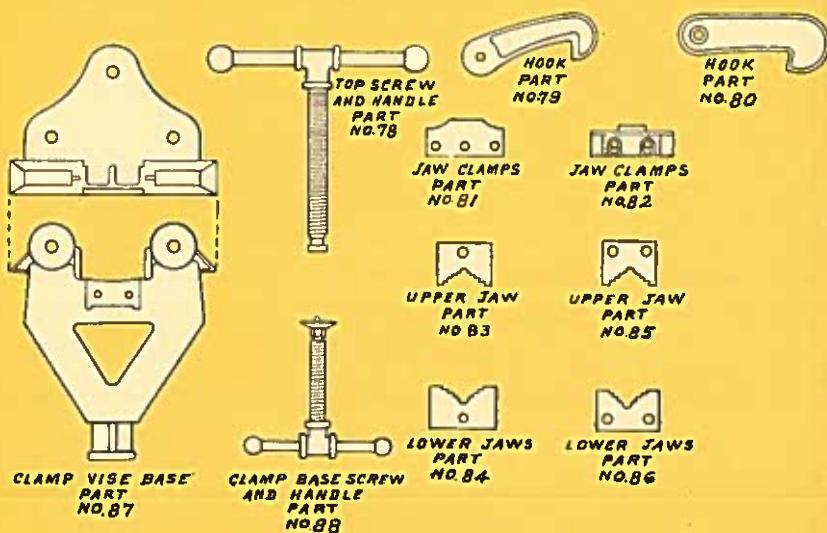
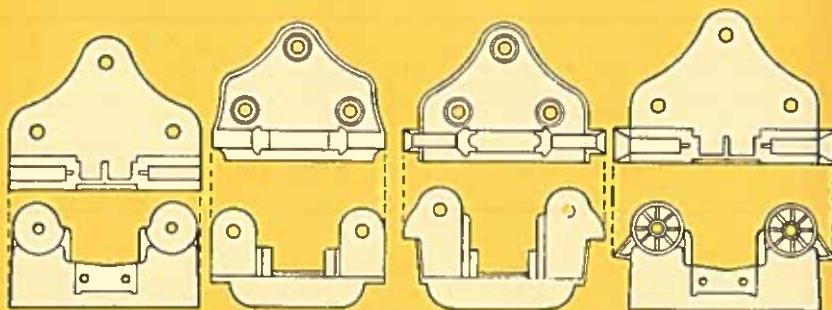
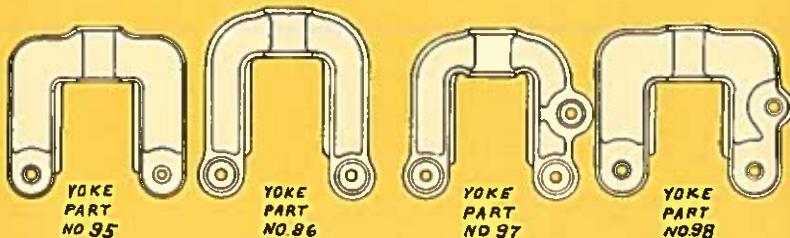
**List of Parts for Steamfitters' Vises**

Width of Vise Jaw	No. 44	No. 45	No. 46	No. 49	No. 50	No. 51	No. 52	Pair	No. 53	No. 54	No. 55	No. 56	No. 57	No. 58	No. 59
4	\$6.50	\$6.50	\$6.50	\$0.20	\$1.80	\$3.00	\$0.75	\$0.65	\$3.80	\$0.50	\$0.50	\$0.25	\$0.25	\$0.25	\$0.25
4 $\frac{1}{2}$	9.50	9.50	9.50	.30	2.65	4.00	1.10	.95	5.60	.70	.70	.35	.35	.35	.35
5	12.00	12.00	12.00	.40	3.30	5.00	1.40	1.20	7.00	.90	.90	.45	.45	.45	.45
6	17.50	17.50	17.50	.55	4.85	7.00	2.00	1.75	10.25	1.35	1.35	.65	.65	.65	.65

In ordering parts, always give, first—Name of Part; second—Number of Part; third—Number on the Vise; fourth—Width of Vise Jaw. Be sure to see that the vise bears our name, otherwise it is not our make and any parts ordered will probably not fit.

See code on pages 58 to 60.

# Pipe Vise Parts



**List of Parts for Reed Pipe Vises**

**Standard**

Vise No.	No. 77	No. 78	No. 80	No. 82	No. 85	No. 86 Each	No. 98
7000	\$0.95	\$0.70	\$0.25	\$0.25	\$0.40	\$0.40	\$0.60
700	1.40	1.00	.25	.25	.50	.50	.90
70	1.60	1.20	.30	.25	.60	.60	1.00
71	1.90	1.40	.35	.30	.60	.60	1.20
72	2.80	2.20	.50	.45	.85	.85	1.80
73	4.20	3.00	.75	.65	1.20	1.20	2.65

**Extra Heavy**

Vise No.	No. 77	No. 78	No. 80	No. 82	No. 85	No. 86 Each	No. 98
61	\$2.30	\$1.40	\$0.45	\$0.30	\$0.60	\$0.60	\$1.50
62	3.40	2.20	.60	.45	.85	.85	2.20
63	5.00	3.00	.90	.65	1.20	1.20	3.10
64	9.00	6.60	1.60	1.20	2.00	2.00	5.75
65	18.00	13.00	3.30	2.80	2.85	2.85	11.50
66	26.50	19.50	5.00	4.20	4.50	4.50	17.00

**Self-Locking Clamp Kit**

Vise No.	No. 78	No. 80	No. 82	No. 85	No. 86 Each	No. 87	No. 88	No. 98
9000	\$0.75	\$0.25	\$0.25	\$0.40	\$0.40	\$1.85	\$0.70	\$0.60
900	1.00	.25	.25	.50	.50	2.40	.90	.85
90	1.20	.30	.25	.60	.60	2.65	1.10	1.00
91	1.40	.35	.30	.60	.60	3.40	1.30	1.20

**Styles Discontinued—Not Shown in Catalog**

Parts supplied only until stocks on hand are exhausted.

Vise No.	No. 74	No. 75	No. 76	No. 78	No. 79	No. 81	No. 83	No. 84	No. 95	No. 96	No. 97	Each
1, 11 or 1A	\$....	\$1.90	\$....	\$1.40	\$....	\$0.30	\$0.60	\$0.60	\$....	\$1.20	\$....	
2, 12 or 2A	....	2.80	....	2.20	....	.45	.85	.85	....	1.80	....	
3, 13 or 3A	....	4.20	....	3.00	....	.65	1.20	1.20	....	2.65	....	
21 or 1B	....	....	1.90	1.40	0.35	.30	.60	.60	....	....	1.20	
22 or 2B	....	....	2.80	2.20	.50	.45	.85	.85	....	....	1.80	
23 or 3B	....	....	4.20	3.00	.75	.65	1.20	1.20	....	....	2.65	
24	....	....	9.00	6.60	1.60	1.20	2.00	2.00	....	....	5.75	
81	1.90	....	....	1.40	....	.30	.60	.60	1.20	....	....	
82	2.80	....	....	2.20	....	.45	.85	.85	1.80	....	....	
83	4.20	....	....	3.00	....	.65	1.20	1.20	2.65	....	....	

See code on pages 58 to 60.

# ~BOOKLETS~ *Brochures and Price-List Folders*

## BOOKLETS Brochures and Price List Folders For Dealers' Use

We have a very complete line of booklets and folders, describing Reed products. These are attractively printed in two or more colors, and fit the usual small size business envelopes.

These publications will be supplied dealers with their imprint in any quantity desired for mailing to their trade. All will carry with a bill, statement, or full letter sheet for one first class postage (2c).

Please order by number and title, giving quantity and also firm name, street address, city and state, and telephone number. All will be included in imprint whenever possible.

### Vise Literature—

- No. 1—Machinists' Vise Folder—100, 200, 300 lines.
- No. 2—2-page Vise Price List—100 and 200.
- No. 3—2-page Vise Price List—300 and 400.
- No. 4—Combination Vise Folder.
- No. 5—"Are Yours Heavy Enough?"
- No. 6—"Primary Function of a Vise."
- No. 7—"Have You Enough Vises?"
- No. 8—"Rigidity."
- No. 9—"A Vise of Pure Gold."
- No. 49—24-page Vise Catalog.

### Pipe Tool Literature—

- No. 52—Adjustable Stock and Die Folder.
- No. 53—Solid Stock and Die Folder.
- No. 54—Pipe Cutter Folder.
- No. 55—Pipe Vise Folder.
- No. 58—Q & E Die Folder.
- No. 60—Ratchet Stock and Die Folder (6x9).
- No. 61—Ratchet Stock and Die Folder (3½x6¾).
- No. 62—Ratchet Stock and Die Folder for Brass Pipe (6x9).
- No. 63—3-Way Stock and Die Folder.
- No. 64—Removable Head Ratchet Stock and Die Folder.
- No. 65—Standard Ratchet Stock and Die Folder.

### Foreign Literature—

- No. 12-S—Spanish Catalog.
- No. 12-P—Portuguese Catalog.
- No. 68—Spanish Ratchet Folder.
- No. 69—Portuguese Ratchet Folder.

## Sizes, Dimensions, etc., for Standard Pipe

Nominal Inside Diameter, Inches	Price per Foot, Black or Galvanized	Number of Threads per Inch	Approximate Outside Diameter, Inches	Actual Outside Diameter, Inches	Approximate Inside Diameter, Inches	Actual Inside Diameter, Inches	Length of Perfect Thread, Inches	Thickness of Metal, Inches	Length in Feet of Pipe to make One Cubic Foot	Length in Feet of Pipe Holding One Cubic Foot	Per Foot of Ext. Surface	Weight in Pounds
1 $\frac{1}{8}$	\$0.05 $\frac{1}{2}$	27	1 $\frac{1}{8}$	0.405	1 $\frac{1}{8}$	0.269	1 $\frac{1}{8}$	1 $\frac{1}{8}$	2513.0	9.440	0.24	0.42
1 $\frac{1}{4}$	.06	18	1 $\frac{1}{4}$	0.540	1 $\frac{1}{4}$	0.346	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1318.3	7.075	0.42	0.42
3 $\frac{3}{8}$	.06	18	1 $\frac{3}{8}$	0.675	1 $\frac{3}{8}$	0.493	1 $\frac{3}{8}$	1 $\frac{3}{8}$	751.2	5.657	0.56	0.56
1 $\frac{1}{2}$	.08 $\frac{1}{2}$	14	1 $\frac{1}{2}$	0.840	1 $\frac{1}{2}$	0.622	1 $\frac{1}{4}$	1 $\frac{1}{4}$	472.4	4.547	0.84	0.84
3 $\frac{1}{4}$	.11 $\frac{1}{4}$	14	1 $\frac{1}{4}$	1.050	1 $\frac{1}{4}$	0.824	1 $\frac{1}{4}$	1 $\frac{1}{4}$	270.0	3.637	1.12	1.12
1	.17	11 $\frac{1}{2}$	1 $\frac{1}{8}$	1.315	1 $\frac{1}{8}$	1.049	1 $\frac{1}{8}$	1 $\frac{1}{8}$	166.9	2.904	1.67	1.67
1 $\frac{1}{4}$	.23	11 $\frac{1}{4}$	1 $\frac{1}{8}$	1.660	1 $\frac{1}{8}$	1.380	1 $\frac{1}{8}$	1 $\frac{1}{8}$	96.3	2.301	2.24	2.24
1 $\frac{1}{2}$	.27 $\frac{1}{2}$	11 $\frac{1}{2}$	1 $\frac{1}{8}$	1.900	1 $\frac{1}{8}$	1.610	1 $\frac{1}{8}$	1 $\frac{1}{8}$	70.7	2.010	2.68	2.68
2	.37	11 $\frac{1}{2}$	2 $\frac{1}{8}$	2.375	2 $\frac{1}{8}$	2.067	2 $\frac{1}{8}$	2 $\frac{1}{8}$	42.9	1.608	3.61	3.61
2 $\frac{1}{2}$	.58 $\frac{1}{2}$	8	2 $\frac{1}{8}$	2.875	2 $\frac{1}{8}$	2.469	2 $\frac{1}{8}$	2 $\frac{1}{8}$	30.1	1.328	5.74	5.74
3	.76 $\frac{1}{2}$	8	3 $\frac{1}{8}$	3.300	3 $\frac{1}{8}$	3.068	3 $\frac{1}{8}$	3 $\frac{1}{8}$	19.5	1.091	7.54	7.54
3 $\frac{1}{2}$	.92	8	4	4.000	3 $\frac{1}{8}$	3.548	1	1	14.6	.955	9.00	9.00
4	1.09	8	4 $\frac{1}{2}$	4.500	4 $\frac{1}{2}$	4.026	1 $\frac{1}{4}$	1 $\frac{1}{4}$	11.3	.849	10.66	10.66
4 $\frac{1}{2}$	1.27	8	5	5.000	4 $\frac{1}{2}$	4.506	1 $\frac{1}{4}$	1 $\frac{1}{4}$	9.0	.764	12.49	12.49
5	1.48	8	5 $\frac{1}{8}$	5.653	5 $\frac{1}{8}$	5.047	1 $\frac{1}{4}$	1 $\frac{1}{4}$	7.2	.687	14.50	14.50
6	1.92	8	6 $\frac{5}{8}$	6.625	6 $\frac{1}{8}$	6.065	1 $\frac{1}{4}$	1 $\frac{1}{4}$	5.0	.577	18.76	18.76
7	2.38	8	7 $\frac{5}{8}$	7.625	7 $\frac{1}{8}$	7.023	1 $\frac{1}{4}$	1 $\frac{1}{4}$	3.7	.501	23.27	23.27
8	2.50	8	8 $\frac{1}{8}$	8.625	8	8.071	1 $\frac{1}{4}$	1 $\frac{1}{4}$	2.9	.443	28.18	28.18
9	3.45	8	9 $\frac{1}{8}$	9.625	9	8.941	1 $\frac{1}{8}$	1 $\frac{1}{8}$	2.3	.397	33.70	33.70
10	3.50	8	10 $\frac{1}{4}$	10.750	10 $\frac{1}{4}$	10.136	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1.9	.355	40.00	40.00
11	4.63	8	11 $\frac{3}{4}$	11.750	11	11.000	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1.5	.325	45.00	45.00
12	4.50	8	12 $\frac{1}{4}$	12.750	12	12.090	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1.3	.299	49.00	49.00

Dimensions are to the nearest 64th of an inch

The sizes of twist drills to be used in boring holes to be reamed with a pipe reamer and threaded with a pipe tap are as follows:

Size of Tap :  
Diameter of Drill :

## Code

Cable Address: REED ERIE

LABEL	What cable code do you use?
LACHE	We do not understand the..... word of your cable.
LADLE	Answer immediately by wire.
LAERS	Quote us by letter your lowest price and terms on.....
LAFTO	Quote us by wire your lowest price and terms on.....
LAGER	At what price and how soon can you ship?
LAITY	Advise by wire how soon you can ship.
LAKIN	Advise by wire when you will ship our order No. (or for)....
LALLY	Have you in stock for immediate shipment.....?
LAMPS	Have order for..... How soon can you ship?
LANCE	When will you ship our order No. (or for).....
LAPSE	Has shipment been made of order No. (or for).....
LARCH	Send tracer goods not yet received on order No. (or for)....
LASSO	Ship immediately by express.
LATIN	Ship immediately by freight.
LAUGH	Ship immediately by water and rail.
LAVER	Ship immediately by steamer.
LAWNT	Ship immediately by sailing vessel.
LAXOL	Hold in abeyance order No. (or for).....; have written.
LAYLO	Enter order for..... and advise when you will ship.
LAZAR	Enter order for..... and ship as soon as possible.
LIANE	We quote for immediate acceptance.
LIBRE	We accept your order at prices named.
LICIT	We cannot accept your order at prices named.
LIDEN	Terms cash with order.
LIEGE	Terms cash in New York.
LIFET	Terms cash on receipt of invoice.
LIGAN	Terms sight draft attached to Bill of Lading.
LIHAG	Terms 30 days sight draft with interest attached to Bill of Lading.
LIKOS	Terms 60 days sight draft with interest attached to Bill of Lading.
LILAC	Terms net 60 days, 2 per cent, 10 days F. O. B., Erie.
LIMON	Freight prepaid to New York.
LINER	Freight allowed to.....
LIOTS	..... cents per 100 pounds freight allowance.
LIPOZ	We quote you \$..... on.....
LIQUO	We quote you..... per cent, discount on.....
LIRGE	We have already given you our very lowest prices.
LISEN	We can (or will) ship today.
LITRE	We can (or will) ship tomorrow.
LIVID	We can (or will) ship in 3 days.
LIWOX	We can (or will) ship in 5 days.
LIXEL	We can (or will) ship in 10 days.
LIZAR	We can (or will) ship in 15 days.
LOACH	We can (or will) ship in 20 days.
LOBBY	We can (or will) ship in 30 days.
LOCUS	We can (or will) ship in 45 days.
LODGE	We can (or will) ship in 60 days.
LOFIK	Do you want American or English threads for dies in your order?

### USE CODE ALSO

for number, size and  
style of tools. See  
code word in the price  
list for each tool.

## Code

Cable Address: REED ERIE

KABAN	Machinists' Vises
KAFFO	Filers' Vises
KAGEL	Coachmakers' Vises
KAHAR	Caps for Vise Jaws
KAJAZ	Combination Vises
KAKAD	Steamfitters' Vises
KALUD	Extra Heavy Pipe Vises
KARIN	Standard Pipe Vises
KASET	Clamp Pipe Vises
KAVID	Adjustable Stocks and Pipe Dies
KAZAN	Adjustable Pipe Dies
KEBAF	Solid Stock and Pipe Dies
KEDID	Solid Pipe Dies
KEFOG	Adjustable Guide Ratchet Stocks and Dies
KEGUL	3-Way Stocks and Dies
KEJOR	Removable Head Ratchet Stocks and Dies
KELAP	Standard Ratchet Stocks and Dies
KERRY	Adjustable Stocks and Bolt Dies
KESTE	Adjustable Bolt Dies
KEWAL	Solid Stocks and Bolt Dies
KIBOL	Solid Bolt Dies
KIDDY	Adjustable Casing Dies
KILLS	Solid Casing Dies
KIRSH	Adjustable Plumbers' Tubing Dies
KISHA	Solid Plumbers' Tubing Dies
KITES	Adjustable Staybolt Dies
KIVAL	Solid Staybolt Dies
KOAST	Barnes Pipe Cutters
KOELS	Saunders Pipe Cutters
KOHOS	Pipe Cutter Wheels
Kojaz	Combination Pliers
KOKKO	Strap Wrenches
KOLLY	Strap Vises

Inasmuch as all of our code words are of five letters each, two can be combined without exceeding the limit of ten letters imposed by cable and telegraph companies, for each code word.

For illustration—LAFTO BAERS ABAFT ABBOT (meaning, Quote us by wire your lowest price and terms on six each, No. 102 and No. 102½ Machinists' Vises) can be condensed to LAFTOBAERS ABAFTABBOT.

We have Lieber's, Bentley's, A. B. C. 4th Edition, A. B. C. 5th Edition, Western Union and Atlantic Cable Codes, any of which can be used in conjunction with the above.

Code

Cable Address: REED ERIE

BAABA	1 each.	BEAST	1 only.
BABEL	2 each.	BEBOX	2 only.
BACON	3 each.	BECKT	3 only.
BACCA	4 each.	BECON	4 only.
BADGE	5 each.	BEDIN	5 only.
BAERS	6 each.	BEECH	6 only.
BAEST	7 each.	BEEDS	7 only.
BAETO	8 each.	BEEKO	8 only.
BAEZO	9 each.	BEENT	9 only.
BAFFO	10 each.	BEFOG	10 only.
BAGUE	12 each.	BEGIN	12 only.
BAGOT	15 each.	BEGOT	15 only.
BAHRA	18 each.	BEHUT	18 only.
BAIZE	24 each.	BEING	24 only.
BAKKA	25 each.	BEKON	25 only.
BALOT	36 each.	BELLE	36 only.
BAMPA	48 each.	BEMUT	48 only.
BANJO	50 each.	BENCH	50 only.
BAPIR	60 each.	BEPPO	60 only.
BAQUIL	72 each.	BEQUO	72 only.
BARON	75 each.	BERME	75 only.
BASIL	100 each.	BESOT	100 only.
BATON	144 each.	BETLE	144 only.
BAVAR	150 each.	BEVOE	150 only.
BAWNS	200 each.	BEWIT	200 only.
BAXOL	300 each.	BEXAM	300 only.
BAYLE	400 each.	BEYLC	400 only.
BAZAR	500 each.	BEZEL	500 only.

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